

FIGURE 1

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

2/118

DATABASE RECORDS:

Customer Id: c1500

First: Joe Last: Smith

City: San Diego

Email: joesmith@company.com

Phone: (555) 555-5555 Fax: (555) 551-5555

Customer Id: c1600

First: John Last: Smith City: San Diego

Email: johnsmith@company.com

Phone: (555) 552-5555 Fax: (555) 553-5555

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

3/118

CUSTOMER.DTD

FIGURE 3A

XML DOCUMENT:

```
<?xml version="1.0" standalone="no"?>
308
            <!DOCTYPE CUSTOMER SYSTEM "customer.dtd">
            < CUSTOMER customer id="c1500" city="san diego">
310
              <customer_name>
312
               <first>Joe</first>
314
               <last >Smith</last>
312
              </customer name>
              <email>joesmith@company.com</email>
316
              <phone> (555) 555-5555</phone>
              <fax> (555) 555-5555</fax>
310
            </CUSTOMER>
```

FIGURE 3B

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
<?xml version="1.0" standalone="yes"?>
            <!DOCTYPE CUSTOMER</pre>
            <!ELEMENT CUSTOMER
               (customer name+, email*, phone*, fax?)>
               <!ATTLIST CUSTOMER customer id ID #REQUIRED>
               <!ATTLIST CUSTOMER city #REQUIRED>
            <! -- ? = zero or one; * = zero or more; + = one or more --->
            <ELEMENT customer name (first+, last+)>
402
            <ELEMENT first (#PCDATA)>
            <ELEMENT last (#PCDATA)>
            <ELEMENT email (#PCDATA)>
            <ELEMENT phone (#PCDATA)>
            <ELEMENT fax (#PCDATA)>
            ]>
            < CUSTOMER customer id="c1500" city="san diego">
              <customer name>
               <first>Joe</first>
               <last >Smith</last>
              </customer name>
404
              <email>joesmith@company.com</email>
              <phone> (555) 555-5555</phone>
              <fax> (555) 555-5555</fax>
            </CUSTOMER>
```

FIGURE 4

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

5/118

XML DOCUMENT (INPUT DATA):

```
<sales>
    <division id="North">
         <revenue>10</revenue>
         <growth>9</growth>
         <bonus>7</bonus>
    </division>
    <division id="South">
         <revenue>4</revenue>
         <growth>3</growth>
         <bonus>4</bonus>
    </division>
    <division id="West">
         <revenue>6</revenue>
         <growth>-1.5</growth>
         <box>bonus>2</bonus>
    </division>
</sales>
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

6/118

XSL STYLE SHEET:

```
<a href="html"><a href="html"><html</a> xsl:version="1.0"
   xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
   lang="en">
  <head>
    <title>Sales Results By Division</title>
  </head>
  <body>
    Division
        Revenue
        Growth
        Bonus
      <xsl:for-each select="sales/division">
        <!-- order the result by revenue -->
        <xsl:sort select="revenue"</pre>
              data-type="number"
              order="descending"/>
        <em><xsl:value-of select="@id"/></em>
          <xsl:value-of select="revenue"/>
          <!-- highlight negative growth in red -->
            <xsl:if test="growth &lt; 0">
               <xsl:attribute name="style">
                 <xsl:text>color:red</xsl:text>
               </r></xsl:attribute>
             </xsl:if>
             <xsl:value-of select="growth"/>
          >
             <xsl:value-of select="bonus"/>
          </xsl:for-each>
    </body>
</html>
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

7/118

HTML OUTPUT:

```
<html lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<title>Sales Results By Division</title>
</head>
<body>
DivisionRevenueGrowthBonus
44
</body>
</html>
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

{PRIVATE}NARA_article_begin:
Path: news.sdsc.edu!newshub.csu.net!newshub.sdsu.edu!newsfeed.berkeley.edu!
news.cis.ohiostate.edu!news.rootsweb.com!rootsweb-gw
From: Casivers@aol.com
Newsgroups: soc.genealogy.hispanic
Subject: Passenger Lists for Ships from Spain To Cuba
Date: 22 Mar 1999 16:20:37 -0800
Organization: RootsWeb Genealogical Data Cooperative
Lines: 7
Message-ID: <2376321.36f6de03@aol.com
NNTP-Posting-Host: localhost
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
X-Trace: bl-1.rootsweb.com 922148437 3147 127.0.0.1 (23 Mar 1999 00:20:37 GMT)
X-Complaints-To: usenet@news.rootsweb.com
NNTP-Posting-Date: 23 Mar 1999 00:20:37 GMT
Xref: news.sdsc.edu soc.genealogy.hispanic:3156
Does anyone know where I can get passengers lists for
ships that transported Spaniards to Cuba circa 1860's?
Any help would be appreciated.
Thanks,
Cheryl Sanchez-Sivers
NARA_article_end:

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Howrey Docket No. 02737.0004.NPUS01

9/118

```
<!ELEMENT rfc1036_mesg (headers, body)>
<!ELEMENT headers (required_headers, optional_headers, other_headers)>
< 'ELEMENT body #PCDATA>
<!ELEMENT required_headers (From, Date, Newsgroups, Subject, Message-ID, Path)>
<!ELEMENT optional headers (Folloup-To?, Expires?, Reply-To?, Sender?, References?, Control?, Distribution?, Keywords?, Summary?, Approved?, Lines?, Xref?, Organization?)>
<!ELEMENT other_headers other+>
                              #PCDATA>
<!ELEMENT From
                        #PCDATA>
<!ELEMENT Date
                        #PCDATA>
<!ELEMENT Newsgroups
                        #PCDATA>
<!ELEMENT Subject
<!ELEMENT Message-ID
                        #PCDATA>
                        #PCDATA>
<!ELEMENT Path
                  seqno CDATA #REQUIRED>
<'ATTLIST From
                  seqno CDATA #REQUIRED>
<!ATTLIST Date
                        seqno CDATA #REQUIRED>
<!ATTLIST Newsgroups
<!ATTLIST Subject sequo CDATA #REQUIRED>
                        seqno CDATA #REQUIRED>
<!ATTLIST Message-ID
                  segno CDATA #REQUIRED>
<!ATTLIST\ Path
<!ELEMENT Followup-To
                        #PCDATA>
<!ELEMENT Expires
                        #PCDATA>
                              #PCDATA>
<!ELEMENT Reply-To
                        #PCDATA>
<!ELEMENT Sender
<!ELEMENT References
                              #PCDATA>
<!ELEMENT Control
                        #PCDATA>
                              #PCDATA>
< 'ELEMENT Distribution
                              #PCDATA>
<!ELEMENT Keywords
<!ELEMENT Summary
                              #PCDATA>
<!ELEMENT Approved
                              #PCDATA>
<!ELEMENT Lines
                        #PCDATA>
                        #PCDATA>
<!ELEMENT Xref
                        #PCDATA>
<!ELEMENT Organization
<!ATTLIST Followup-To
                               segno CDATA #REQUIRED>
                        seqno CDATA #REQUIRED>
<!ATTLIST Expires
                              seqno CDATA #REQUIRED>
<!ATTLIST Reply-To
                        seqno CDATA #REQUIRED>
<!ATTLIST Sender
<!ATTLIST References
                               segno CDATA #REQUIRED>
                        sequo CDATA #REQUIRED>
<!ATTLIST Control
                               sequo CDATA #REQUIRED>
<!ATTLIST Distribution
                               segno CDATA #REQUIRED>
<!ATTLIST Keywords
                               seqno CDATA #REQUIRED>
<!ATTLIST Summary
                               segno CDATA #REQUIRED>
<!ATTLIST Approved
                         seqno CDATA #REQUIRED>
<!ATTLIST Lines
                         seqno CDATA #REQUIRED>
<!ATTLIST Xref
                               seqno CDATA #REQUIRED>
<!ATTLIST Organization
<!ELEMENT other #PCDATA>
< 'ATTLIST other
                   CDATA #REQUIRED
       keyword
                   CDATA #REQUIRED>
       seqno
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
create table ngrps headers_core (
   internalMsgId
                     integer
                                not null,
                   varchar(200) not null,
   FromInfo
                   varchar(50) not null,
   MsgDate
                     varchar(1900) not null,
   Newsgroups
                    varchar(1900) not null,
   SubjectInfo
                    varchar(200) not null,
   Messageld
   PathInfo
                   varchar(1900) not null,
                     varchar(1900),
   FollowupTo
                    varchar(50),
   ExpiresOn
   ReplyTo
                   varchar(200),
                    varchar(200),
   SenderInfo
                     varchar(1900),
   ReferencesInfo
                    varchar(1900),
   ControlInfo
    DistributionInfo
                     varchar(500),
                      varchar(1900),
    KeywordsInfo
                      varchar(1900),
    SummaryInfo
    ApprovedInfo
                      varchar(500),
    LinesOfEmail
                     integer,
                   varchar(500).
    XrefInfo
    OrganizationInfo varchar(500),
    FromSeqNum
                       ınteger,
    MsgDateSeqNum
                         integer,
    NewsgroupsSeqNum integer,
    SubjectSeqNum
                       integer,
    MessageIdSeqNum
                         integer,
    PathSeqNum
                      integer,
    FollowupToSeqNum integer,
    ExpiresSeqNum
                       integer,
    ReplyToSeqNum
                        integer,
    SenderSeqNum
                       integer,
    ReferencesSeqNum integer,
    ControlSeqNum
                       integer,
    DistributionSeqNum integer,
    KeywordsSeqNum
                         integer,
    SummarySeqNum
                         integer,
    ApprovedSeqNum
                         integer,
    LinesSeqNum
                       integer,
    XrefSeqNum
                      integer,
    OrganizationSeqNum integer,
    primary key (internal MsgId),
    unique (MessageId, MsgDate)
);
create table ngrps_headers_othr (
    internalMsgId
                      integer
                                  not null.
    HdrKeyName
                       varchar(50),
    HdrKeyValue
                       varchar(2000),
    HdrKeySeqNum
                         integer,
    foreign key (internalMsgId) references ngrps_headers_core (internalMsgId)
);
create table container info (
    internalId
                   integer
                               not null,
     data_id
                   integer
                              not null,
    posInContainer
                      integer,
    sizeOfMsg
                     integer,
     foreign key (internalId) references ngrps headers core(internalMsgId),
     foreign key (data_id) references MDAS_AD_REPL(data_id)
```

11/118

FORMATTED MESSAGE USING XML DTD

€ output.xml - XML Notepad	×
File Edit View Insert Tools Help	
	月福 ◆ ◆ ◆ ◆ ◆ ◆ ●
Structure	Walues Contact to the
☐ FG RFC1036_MESG	
☐ ☐ HEADERS	
☐ ☐ REQUIRED_HEADERS	The state of the s
□ 🗀 FROM	Casivers@aol.com
◆ SEQNO	2
🖽 🗀 DATE	22 Mar 1999 16:20:37 -0800
	soc.genealogy.hispanic
⊕ 🗀 SUBJECT	Passenger Lists for Ships from Spain To Cuba
	<2376321.36f6de03@aol.com>
E C FATH	news.sdsc.edulnewshub.csu.netlnewshub.sdsu.edulnewsfeed.berkeley.e
♦ SEQNO	1
☐ OPTIONAL_HEADERS	
: ⊕· C LINES	7
	news.sdsc.edu soc.genealogy.hispanic:3156
□ C ORGANIZATION	RootsWeb Genealogical Data Cooperative
` ♦ SEQNO	6
□ □ OTHER_HEADERS	
☐ 🗀 OTHER	localhost
♦ KEYWORD	NNTP-Posting-Host
. ♦ SEQNO	9
	1.0
⊞ 🗀 OTHER	text/plain; charset=US-ASCII
⊕ 🗀 OTHER	7bit
⊕ 🗀 OTHER	bl-1.rootsweb.com 922148437 3147 127.0.0.1 (23 Mar 1999 00:20:37 GMT)
⊕ C OTHER	usenet@news.rootsweb.com
⊕ C OTHER	23 Mar 1999 00:20:37 GMT
► BODY ·	Does anyone know where I can get passengers lists for ships that transpo
For Help, press F1	

FIGURE 11

12/118

WEB-BASED INTERFACE FOR ACCESSING THE E-MAIL COLLECTION.

MCAT-SRB A Data Integration System - Microsom	oft Internet Explorer	_ D ×
<u>File Edit View Favorites Tools Help</u>		
Back Forward Stop Refresh Home	Search Favorites History Mail	Print: Edit
Address http://srb.npaci.edu/		▼ @Go Links »
Create New Add Attribute	Attribute N	ames
Vu-Schema To Vu-Schema	mcatcore.data name	=
Drop Drop Attribute Vu-Schema From Vu-Schema Query & Display	mcatcore.data collection name	
Update Vu Schema	newsgroups.posInContainer	- I
Demos	newsgroups.sizeOfMsg	- 1
	newsgroups.MessageId	- Y
Field Demonstrations for News	newsgroups.FromInfo	- J
Groups Demo #1: Postings of Eric	newsgroups.MsgDate	like 👤 7 Jan 198
Lancaster	newsgroups.Newsgroups	-
Demo #2: Postings on 7th January 1999	newsgroups.SubjectInfo	= 3
Demo #3: Postings on the Classical	newsgroups.SenderInfo	.
Studies Subject with line count above 1000 but	newsgroups.KeywordsInfo	= 💌,
below 5000	newsgroups.LinesOfEmail	- 3
Demo #4: <u>Postings with Content-</u> <u>Type header</u>	Output Format: Tabular C Lin	<
Demo #5: Non-required and non- optional headers	← Form2 Number of Items to Display: ← No	
Collection-level Metadata	Get Attribute Value	Clear
Object-level Metadata	- No. of the control	
Collection Life-Cycle and Statistics		
		internet //

FIGURE 12

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

13/118

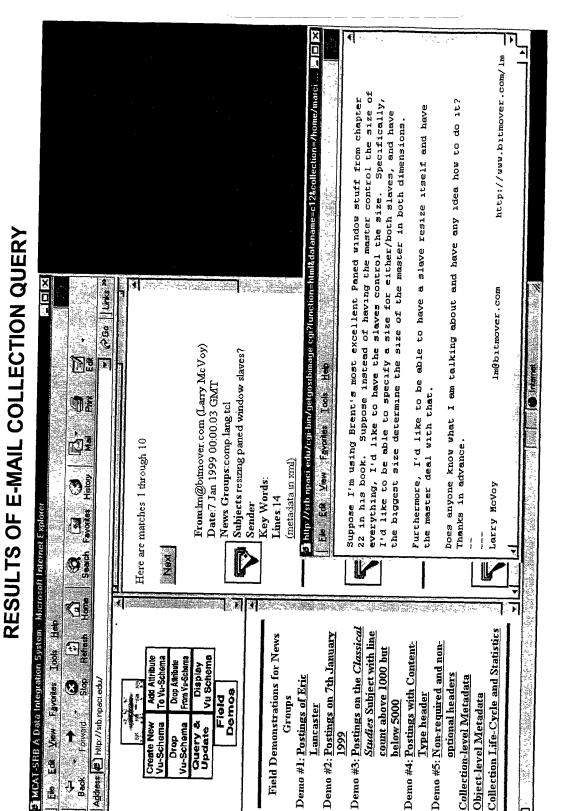


FIGURE 13

1

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01 14/118

FIGURE 14

ELEMENT c</th <th>accf record EMPTY</th> <th>all info</th> <th>is in the attributes</th>	accf record EMPTY	all info	is in the attributes
)>			
ATTLIST ca</td <td>ccf record</td> <td>length</td> <td>meaning</td>	ccf record	length	meaning
ms	CDATA #REQUIRED	1	Military Service (DoD Component)
cc	CDATA #REQUIRED	2	Country of Casualty
tc	CDATA #REQUIRED	2	Type of Casualty
rn	CDATA #REQUIRED	5	Reference Number (File Ref. No)
na	CDATA #REQUIRED	28	Name (of Casualty)
dp	CDATA #REQUIRED	4	Date Record Processed (YYMM)
sn	CDATA #REQUIRED	9	Social Security OR Service Num.
mg	CDATA #REQUIRED	4	Military Grade (Grade or Rate)
pg	CDATA #REQUIRED	2	Pay Grade (Grade or Rate)
dd	CDATA #REQUIRED	8	Date of Death (MM/DD/YY) (Casualty)
hc	CDATA #REQUIRED	20	"Home of Record" City (Place)
hs	CDATA #REQUIRED	2	"Home of Record" State Code
oc	CDATA #REQUIRED	5	Service Occupation Code
db	CDATA #REQUIRED	8	Date of Birth (MM/DD/YY)
rc	CDATA #REQUIRED	1	Reason (Cause of Casualty)
ai	CDATA #REQUIRED	1	Aircraft or Not Aircraft
ra	CDATA #REQUIRED	1	Race
re	CDATA #REQUIRED	2	Religion Code (Religious Denom.)
le	CDATA #REQUIRED	2	Length of Service in Years
ma	CDATA #REQUIRED	1	Marital Status
se	CDATA #REQUIRED	1	Sex
ci	CDATA #REQUIRED	1	Citizen Code
pp	CDATA #REQUIRED	1	Posthumous Promotion
dt	CDATA #REQUIRED	6	Date Tour in Southeast Asia
lr	CDATA #REQUIRED	1	Last Record Code
br	CDATA #REQUIRED	3	Body Recovered or Not
ag	CDATA #REQUIRED	2	Age at Time of Casualty
sc	CDATA #REQUIRED	l	Component (Service Component)
со	CDATA #REQUIRED	29	Comments
ty	CDATA #REQUIRED	2	Type
pc	CDATA #REQUIRED	2	Province Code (South Vietnam
Provinces &			
			Military Regions)
mc	CDATA #REQUIRED	2	CORPCD
pr	CDATA #REQUIRED	2	PROCD
fl	CDATA #REQUIRED	2	Flag
)>			

FIGURE 15

16/118

```
create table CACCF (
    REC NO
                           int not null,
                                             -- DICE: no. as found in the source
    MIL SERVICE
                                             -- Military Service (DoD Component)
                           char (1),
    CASUALTY_COUNTRY
                                             char (2), -- Country of Casualty
    CASUALTY_TYPE
                          char (2),
                                             -- Type of Casualty
    REF_NO
                                             -- Reference Number (File Ref. No)
                           char (5),
    NAME
                           char (28),
                                             -- Name (of Casualty)
    PROCESSED
                                             -- Date Record Processed (YYMM)
                           char (4),
    SSN_SERVICE_NO
                          char (9),
                                             -- Social Security OR Service Num.
    GRADE
                          char (4),
                                             -- Military Grade (Grade or Rate)
    PAY_GRADE
                           char (2),
                                             -- Pay Grade (Grade or Rate)
                                             -- Date of Death (MM/DD/YY)(Casualty)
    DIED
                           date,
                                             -- "Home of Record" City (Place)
-- "Home of Record" State Code
                           char (20),
    HOR_CITY
    HOR STATE
                           char (2),
    OCCUPATION
                                             -- Service Occupation Code
                           char (5),
    BORN
                                             -- Date of Birth (MM/DD/YY)
                           date,
    CASUALTY_REASON char (1),
                                             -- Reason (Cause of Casualty)
                                             -- Aircraft or Not Aircraft
    AIR
                           char (1),
    RACE
                           char (1),
                                             -- Race
                                             -- Religion Code (Religious Denom.)
    RELIGION
                           char (2),
    SERVICE LENGTH
                          char (2),
                                             -- Length of Service in Years
    MARITAL_STATUS
                          char (1),
                                             -- Marital Status
                           char (1),
                                             -- Sex
    CITIZEN
                           char (1),
                                             -- Citizen Code
    PH_PROMOTION
                           char (1),
                                             -- Posthumous Promotion
                                             -- Date Tour in Southeast Asia
    SEA_TOUR
                           date,
    LAST_RECORD
                           char (1),
                                             -- Last Record Code
    BODY_RECOVERED char (3),
                                             -- Body Recovered or Not
    AGE
                           char (2),
                                             -- Age at Time of Casualty
    COMPONENT
                           char (1),
                                             -- Component (Service Component)
    COMMENTS
                          char (29),
                                             -- Comments
    TYPE
                           char (2),
                                             -- Type
    PROVINCE
                           char (2),
                                             -- Province Code (South Vietnam Provinces and
    Military Regions)
    CORPCD
                                             -- CORPCD
                           char (2),
                                             -- PROCD
    PROCD
                           char (2),
    FLAG
                                             -- Flag
                           char (2),
                           varchar (1000) -- DICE: notes/corrections made
    NOTES
    PRIMARY KEY
                           (SSN SERVICE NO),
    UNIQUE
                           (REC_NO)
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

17/118

/* Find records with incomplete BORN or DIED date: */ SQL> select REC_NO, NAME, BORN, DIED, AGE from CACCF where BORN is null or DIED is null; **BORN** REC_NO NAME DIED AG 2114 SEVENBERGEN JERRY L 16-MAR-66 0 10-SEP-66 0 3882 DOMINGUEZ MICHAEL J 3883 JORDAN ALLAN H 10-SEP-66 0 33997 HALIBURTON MICHAEL R 08-AUG-70 0 17 rows selected. /* How many entries do NOT have a value for 'Date Tour in Southeast Asia'? */ SQL> select count (*) from CACCF where SEA_TOUR is null; COUNT(*)

18/118

/* What is the number and min/max/average age of the casualties over entries where AGE is available? */

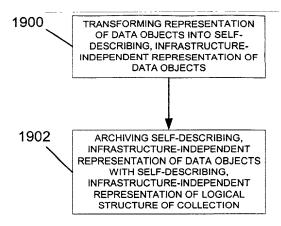
SQL> select count(*), min(AGE), max(AGE), avg(AGE)

- from CACCF
- where not AGE = '0';

COUNT(*)	MI	MA	AVG(AGE)
58164	16	62	22.7932742

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

19/118



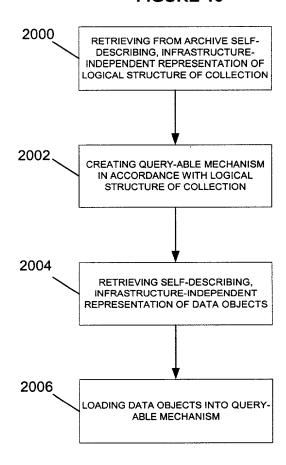


FIGURE 20

20/118

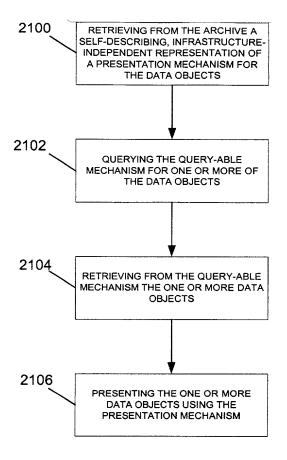


FIGURE 21A

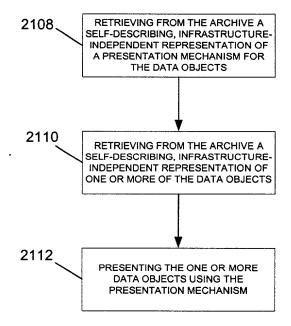


FIGURE 21B

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

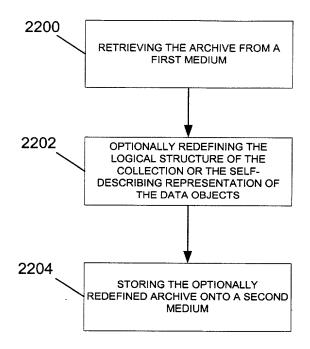
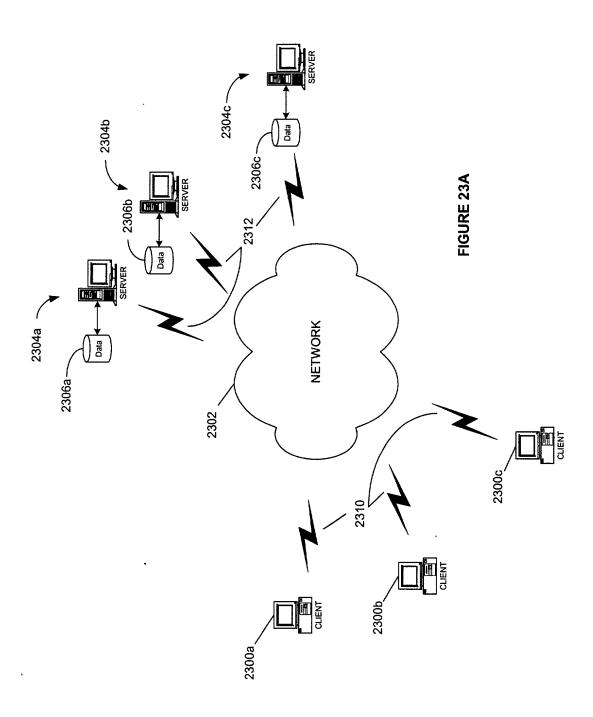


FIGURE 22

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01



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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01 23/118

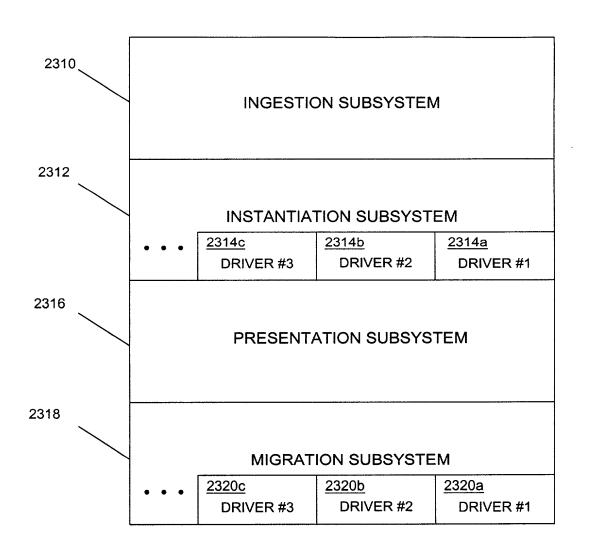


FIGURE 23B

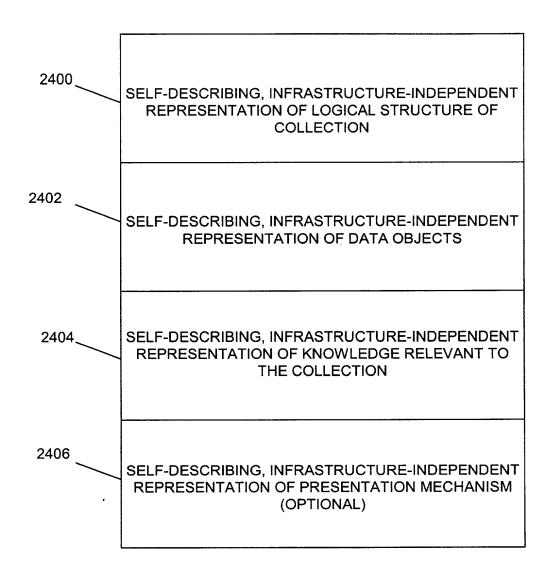


FIGURE 24

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

25/118

```
<!ELEMENT DOCUMENT (CONGRESS|RESOLUTION|ATTESTATION)* >
<!ATTLIST DOCUMENT DOCID CDATA #IMPLIED>
<!ATTLIST DOCUMENT REFERENCENUMBER CDATA #IMPLIED>
<!ATTLIST DOCUMENT CLASS CDATA #IMPLIED>
<!ELEMENT CONGRESS (NUMBER|SESSIONNUMBER|(BODYOFCONGRESS)*|DATE) >
<!ELEMENT NUMBER (#PCDATA)* >
<!ELEMENT SESSIONNUMBER (#PCDATA)*>
<!ELEMENT BODYOFCONGRESS (#PCDATA)* >
<!ELEMENT DATE (#PCDATA)* >
<!ELEMENT RESOLUTION (TYPE|STATEMENT)*>
<!ELEMENT TYPE (#PCDATA)* >
<!ELEMENT STATEMENT (OPENING|(STRIKEOUT|INSERT)*|CLOSING) >
<!ELEMENT OPENING (#PCDATA)* >
<!ELEMENT STRIKEOUT (#PCDATA)* >
<!ELEMENT INSERT (#PCDATA)* >
<!ELEMENT CLOSING (#PCDATA)* >
<!ELEMENT ATTESTATION (#PCDATA)* >
```

26/118

```
<!ELEMENT DOCUMENT (CONGRESS|ACT)* >
<!ATTLIST DOCUMENT DOCID CDATA #IMPLIED>
<!ATTLIST DOCUMENT REFERENCENUMBER CDATA #IMPLIED>
<!ATTLIST DOCUMENT CLASS CDATA #IMPLIED>
<!ELEMENT CONGRESS (NUMBER|SESSIONNUMBER|BODYOFCONGRESS|DATE) >
<!ELEMENT NUMBER (#PCDATA)*>
<!ELEMENT SESSIONNUMBER (#PCDATA)* >
<!ELEMENT BODYOFCONGRESS (#PCDATA)*>
<!ELEMENT DATE (#PCDATA)* >
<!ELEMENT ACT (PURPOSE|SECTION)*>
<!ELEMENT PURPOSE (#PCDATA)* >
<!ELEMENT SECTION (HEADING|STATEMENT|SUBSECTION)* >
<!ATTLIST SECTION NUMBER CDATA #IMPLIED>
<!ELEMENT HEADING (#PCDATA|SHORTTITLE)*>
<!ELEMENT SHORTTITLE (#PCDATA)* >
<!ELEMENT STATEMENT (#PCDATA | AMENDMENT | SECTION | ATTESTATION |</pre>
TEXT)* >
<!ELEMENT AMENDMENT (CODE|STRIKEOUT|INSERT|REDESIGNATE)*>
<!ELEMENT CODE (#PCDATA)* >
<!ELEMENT STRIKEOUT (#PCDATA)*>
<!ELEMENT INSERT (#PCDATA|PARAGRAPH|SUBSECTION|INSERT)*>
<!ELEMENT PARAGRAPH (TOPIC|TEXT|PARAGRAPH)*>
<!ATTLIST PARAGRAPH NUMBER CDATA #IMPLIED>
<!ELEMENT SUBSECTION (TOPIC|PARAGRAPH)*>
<!ATTLIST SUBSECTION NUMBER CDATA #IMPLIED>
<!ELEMENT TOPIC (#PCDATA)* >
<!ELEMENT TEXT (#PCDATA)* >
<!ELEMENT REDESIGNATE (#PCDATA)* >
<!ELEMENT ATTESTATION (#PCDATA)* >
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

27/118

<!ELEMENT STATEMENT (#PCDATA | AMENDMENT | SECTION | ATTESTATION | TEXT)*>

-IGURE 27

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

28/118

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<DOCUMENT DOCID="f:hc148eas.txt" REFERENCENUMBER = "H. CON. RES. 148"</pre>
CLASS="Concurrent Resolution">
<CONGRESS>
  <NUMBER>104th CONGRESS</NUMBER>
  <SESSIONNUMBER>2d Session</SESSIONNUMBER>
  <BODYOFCONGRESS>Senate of the United States/BODYOFCONGRESS>
  <DATE>March 21, 1996</DATE>
<RESOLUTION>
      <TYPE>AMENDMENTS</TYPE>
      <STATEMENT>
      <OPENING>
             Resolved, That the resolution from the House of Representatives (H. Con.
             Res. 148) entitled "Concurrent resolution expressing the sense of the
             Congress that the United States is committed to military stability in the
             Taiwan Strait and the United States should assist in defending the
             Republic of China (also known as Taiwan) in the event of invasion,
             missile attack, or blockade by the People's Republic of China.", do pass
             with the following
      </OPENING>
      <STRIKEOUT>Strike out all after the resolving clause
      </STRIKEOUT>
      < INSERT>
      That it is the sense of the Congress-
                    to deplore the missile tests and military exercises that the
             (1)
             People's Republic of China is conducting from March 8 through March 25,
             1996, and view such tests and exercises as potentially serious threats to
             the peace, security, and stability of Taiwan and not in the spirit of the
             three United States-China Joint Communiques;
             (2)
                    to urge the Government of the People's Republic of China to cease
             its bellicose actions directed at Taiwan and enter instead into
             meaningful dialogue with the Government of Taiwan at the highest levels,
             such as through the Straits Exchange Foundation in Taiwan and the
             Association for Relations Across the Taiwan Strait in Beijing, with an
             eye towards decreasing tensions and resolving the issue of the future of
             Taiwan:
             (3)
                   that the President should, consistent with section 3° of the
             Taiwan Relations Act of 1979 (22 U.S.C. 3302©), immediately consult with
             Congress on an appropriate United States response to the tests and
             exercises should the tests or exercises pose an actual threat to the
             peace, security, and stability of Taiwan; (4) that the President should,
             consistent with the Taiwan Relations Act of 1979 (22 U.S.C. 3301 et
             seq.), reexamine the nature and quantity of defense articles and services
             that may be necessary to enable Taiwan to maintain a sufficient self-
             defense capability in light of the heightened military threat; and
                   that the Government of Taiwan should remain committed to the
             peaceful resolution of its future relations with the People's Republic of
             China by mutual decision.
      </INSERT>
      <STRIKEOUT>Strike out the preamble</STRIKEOUT>
      < INSERT>
             Whereas the People's Republic of China, in a clear attempt to intimidate
             the people and Government of Taiwan, has over the past 9 months conducted
             a series of military exercises, including missile tests, within
             alarmingly close proximity to Taiwan;
             Whereas from March 8 through March 15, 1996, the People's Republic of
             China conducted a series of missile tests within 25 to 35 miles of the 2
             principal northern and southern ports of Taiwan, Kaohsiung and Keelung;
             Whereas on March 12, 1996, the People's Republic of China began an 8-day,
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FIGURE 28A

28A 28B

28C

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

29/118

live-ammunition, joint sea-and-air military exercise in a 2,390 square mile area in the southern Taiwan Strait;

Whereas on March 18, 1996, the People's Republic of China began a 7-day, live-ammunition, joint sea-and-air military exercise between Taiwan's islands of Matsu and Wuchu;

Whereas these tests and exercises are a clear escalation of the attempts by the People's Republic of China to intimidate Taiwan and influence the outcome of the upcoming democratic presidential election in Taiwan; Whereas through the administrations of Presidents Nixon, Ford, Carter, Reagan, and Bush, the United States has adhered to a "One China" policy and, during the administration of President Clinton, the United States continues to adhere to the "One China" policy based on the Shanghai Communique of February 27, 1972, the Joint Communique on the Establishment of Diplomatic Relations Between the United States of America and the People's Republic of China of January 1, 1979, and the United States-China Joint Communique of August 17, 1982;

Whereas through the administrations of Presidents Carter, Reagan, and Bush, the United States has adhered to the provisions of the Taiwan Relations Act of 1979 (22 U.S.C. 3301 et seq.) as the basis for continuing commercial, cultural, and other relations between the people of the United States and the people of Taiwan and, during the administration of President Clinton, the United States continues to adhere to the provisions of the Taiwan Relations Act of 1979;

Whereas relations between the United States and the Peoples' Republic of China rest upon the expectation that the future of Taiwan will be settled solely by peaceful means; Whereas the strong interest of the United States in the peaceful settlement of the Taiwan question is one of the central premises of the three United States-China Joint Communiques and was codified in the Taiwan Relations Act of 1979; Whereas the Taiwan Relations Act of 1979 states that peace and stability in the western Pacific "are in the political, security, and economic interests of the United States, and are matters of international concern";

Whereas the Taiwan Relations Act of 1979 states that the United States considers "any effort to determine the future of Taiwan by other than peaceful means, including by boycotts, or embargoes, a threat to the peace and security of the western Pacific area and of grave concern to the United States"; W

hereas the Taiwan Relations Act of 1979 directs the President to "inform Congress promptly of any threat to the security or the social or economic system of the people on Taiwan and any danger to the interests of the United States arising therefrom";

Whereas the Taiwan Relations Act of 1979 further directs that "the President and the Congress shall determine, in accordance with constitutional process, appropriate action by the United States in response to any such danger";

Whereas the United States, the People's Republic of China, and the Government of Taiwan have each previously expressed their commitment to the resolution of the Taiwan question through peaceful means; and

Whereas these missile tests and military exercises, and the accompanying statements made by the Government of the People's Republic of China, call into serious question the commitment of China to the peaceful resolution of the Taiwan question: Now, therefore, be it.

</INSERT>

Amend the title so as to read: "Expressing the sense of Congress regarding missile tests and military exercises by the People's Republic of China.".

<pre><attestation>Secretary</attestation></pre>		
	· ·	

Prefix	Meaning
h	House of Representatives
hc	House of Representatives concurrent resolution
hj	House of Representatives joint resolution
hr	House of Representatives resolution
S	Senate
sc	Senate concurrent resolution
sj	Senate joint resolution
sr	Senate resolution

FIGURE 29

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

Suffix	Count	Meaning
as	3	amendment in the Senate
ath	97	considered and agreed to in the House
ats	251	considered and agreed to in the Senate
cdh	6	considered in the House (and committed to a
		committee)
cds	1	considered in the Senate (and committed to a
		committee)
cph	19	considered and passed in the House
cps	20	considered and passed in the Senate
eah	36	resolved with amendments in the House
eas	115	resolved with amendments in the Senate
eh	887	enactment resolved in the House
es	270	enactment resolved in the Senate
enr	413	
hds	3	held at the desk in the Senate
ih	4947	introduced in the House
is	2271	introduced in the Senate
ips	4	indefinitely postponed in the Senate
lth	8	laid on the table in the House
pch	1	placed on calendar in the House
pcs	184	placed on calendar in the Senate
pp	31	ordered to be printed as passed
rch	8	re-referred to the same or a different committee in
		the House
rcs	6	re-referred to the same or a different committee in
		the Senate
rds	187	received in the Senate
rfh	103	referred to a committee in the House
rih	1	referred to a committee for a limited time in the
		House
ris	44	referred to a committee for a limited time to report,
		or be discharged and placed on the calendar in the
•		Senate
rh	742	report in the House
rs	471	report in the Senate
rh2	1	2-part report in the House
rs2	3	2-part report in the Senate
rth	1	referred to committee in the House
rts	5	referred to committee in the Senate
sc	1	

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

33/118

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		A unique identifier, assigned to a work in the AMICO Library. Comprised of a 4 letter institutional abbreviation, followed by a dot, and then a unique number such as an accession number [DOIs will be investigated in the future]	has been a second of a second	The kind of work of art described; chosen from a short list of ferms	The number and a description of any parts/pieces of the work of any and	Group Does not contain data; used to group fields dassifying work.	Terms used to associate this work with other like works	The dessification scheme from which a term was chosen	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Group Group element
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FIGURE 31A

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	31H
	31G
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31R	31E
310	31D
वाह	31C
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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

34/118

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In the Afternoon}~ untitled}~ Blue #6	preferred}~ popular}~ æ first echibited}~	1 of 5}~ only known}~ artists proof	1st)~ Second American}~		The objects are off center with a brick pathway leading towards them and the carvas in the badground?~ Installation piece for the 2nd floor sculpture court comprised of several pine stides. The ones in the center are burned?~	horizortal}~ designed for 14'x28' room}~ on pedestal	14'x28'}~ 17.6 " x 38" unframed}~ 160 kg.}~ 13.2 cu. m.
no conditions	no conditions	no conditions	no conditions		no conditions	no conditions	no conditions
The title or name of the work	The kind of Title or Name assigned to the work: Can include terms/phrases such as 'preferred', 'as given by artist', etc.	For works produced in multiples, the state of this particular impression	For works produced in multiples, the edition of this particular example.		A narrative description of the physical appearance of the work including any parts or components.	A narrative description of the orientation of the work, or its physical arrangement or setup. For example, used to describe how to assemble an installation, or hang an oddly shaped or abstract work.	A free text display form of the works measurements.
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Object-Title- Name	Title-Type	State	Edition	ikez	OPD Physical Description	Physical Orientation/ Arrangement	Measurements- Text
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FIGURE 31B

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PERSISTENT ARCHIVES

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

35/118

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Validate. Null value >~		no conditions	Validate.	Dimensions Value	Table.				Validate. Numeric		Validate.	Measurement Units	Value Table				no conditions		Validate. Null value	only.						no conditions, look	up in AAT	Propesses/Technics
		AAT																					AMT			TAA		
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FIGURE 31C

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

36/118

no conditions, lock brick}~ cak}~ watercolor}~ up in AAT Materials vamish}~ Herardry	rice paper}~ canas	signed, JG, lower front)~ silver mark on hande)~ insotbed "to my friend john" on rear, with date July 14, 1973}~	Excellent Condition according to Condition Report, 14/7/82, H.M. Black, Corservator)~ not inspected when first accessioned, found to have scratch in upper left, 3 inches long, during 1965 inventory)~	Restored, summer 1987. Detailed treatment report available}~ Base reaffixed July 1987}~	Ž.
no conditions, look brick}∾ o up in AAT Materials varnish}∼ Herardny	no conditions. look up in AAT Materials Herarchy	no conditions	no conditions	no conditions	Validate. Null value only.
AAT	AAT				
OWS Single terms that index the materials used to create the work.	OMG Single terms that index the support on which the work was areated.	A free text description or transcription of any inscriptions or marks on the inscriptions or marks on the work, including their location, medium, hand, and other details.	A narrative description of the Condition or Examination history of the work of art. Otte documentation associated with Condition or Examination History in the Related Documents Group.	A narrative description of the Treatment or Conservation of the Work of art. Otte Documentation associated with Treatment or Conservation in the Related Documents Group.	Group Does not contain data; used to group the fields documenting the creator of thewwork.
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FIGURE 31D

37/118

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FIGURE 31E

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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

38/118

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				corrected M and F in validation to match examples.						
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IGURE 31F

39/118

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Validate. Numeric, Parse to Validate. YYYYNNDD	Validate. Numeric, Parse to Validate, YYYYMINDD	Validate. Date Qualifier Value Table	no conditions. Lookup in TGN	Validate. Null value only.	no conditions. Parse terms from AAT Style and Periods to Style & Period	no conditions. Look up in AAT Style & Periods	Validate. Null value only.
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A number, indicating the earliest possible date a work could have been created; BC dates are recorded as regative integers	A number, indicating the latest possible date a work could have been created; BC dates are recorded as regative integers	A qualifier, that indicates approximation in the earliest or latest date.	A place or places where the work was created.	Grup Does not contain data; used to group fields describing work's style or period.	A narrative description of the style or period of the work of art.	Index terms that characterize the style and/or period of the work of art.	Group Does not contain data; used to group fields documenting work's subject matter.
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FIGURE 31G

PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

40/118

		т	,				
Pastoral landscape with cattle in fields in background}~ Full length portrait with ball gown and pearls}~ Group of men at table gambling and drinking}~	Dana and hounds}~ Christ in the temple}~ Herrod and the slaughter of the impoents}~	Ms. John Patorius}~ Court of Louis XIV}~ Netherlands - 16th century, Recreation}~	£	Excavated at Pompeii in the 1876 expedition)~ Installed in Brussels town square until 1782}~ Originally dsplayed with framelike structure built by the artist as part of the Black3 series}~	Persting, John}~ Emperor Hirohito}~ Wu Hen Din}~ Pope Julius II	Brussels, Belgium}~ Pompei, Italy}~ Times Square, New York, New York, USA}~	1876}~ 1782}~ prior to acquisition by the museum in 1956}~}~
no conditions	no conditions	no conditions	Validate. Null value only.	no conditions	no conditions.	no conditions.	no conditions.
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A free text description of the generic subject of the work of art.	A free text description of the specific, named subject of the work of art	Index tems that characterize the subject of the work of art.	Group Does not contain data, used to group fields documenting work's context.	A narrative description of the historical context of the work of art, including its creation, display, excavation, or other history.	Index forms of the names of any people contextually related to the work of art.	The names of any places that are contextually related to the work of art.	The dates, times or periods of a particular context.
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FIGURE 31H

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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

41/118

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"Delightful! - A briumph." Maravius, Hars, "In the Light of day", The New City News, January 7, 1987}~	, , ,	Manchester Museum of Art, June 10 -	September 18, 1976, "New Lines III Grand Masters"	A CONTRACT OF THE CONTRACT OF	<u>.</u>			SF MOMA}~ The Trustees of the	Harold J. Jameson Memorial Museum	of Cafts}~			Buffalo, New York, USA}~ St.	Petersburg, Russia}~ San Diego,	Chie	87-4532.a-c}~ 456565-0112}~			Gift of Mrs. John Francis Blue}~	Purchased with funds from trustees	and friends in memory of Hector	Esobosa, Brayton Wilbur and J.D.	Zellerbach}~
no conclitors					Validate. Null value }≻	only.		no conditions					no conditions			no conditions			no conditions.				
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Narrative discussions of the oritical reception or analysis of the work of art. Link any oritical texts in the Related Documents Group.		A record of when and where	the work has been exhibited.		Group Does not contain data; used	to group fields documenting works ownership	3.50	OOG The name of the institution	or individual who owns the	work now [e.g. the AMICO	member]. Can repeat if	multiple/part owners	OOG The place where the work is	owned.		OOG The accession or inventory	number assigned to the work	by this owner.	OOG The Credit Line, or any	required mention or	admowledgement of the	ownership of the work of art.	
				\$1.70m (A)	dnag			88					900			98			900				
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Ortical Responses		Exhibition or	Loan History		Owner			Owner Name					Owner-Place			Owner-	Accession-	Number	Owner-Credit-	line			
X	ारभ			22	00G Owner			8					8			8			8				
Catalog	Who showed it?	Catalog		Who owned it?	Cattalog			Catalog					Catalog			Catalog			Catalog		-		

FIGURE 311

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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

42/118

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Andrew Carnegie}~ ASEA International Ltd.}~ Mr. & Mrs. John A. T. Pastors}~	£	Permission for educational use only granted by the Trustees of the Prosso estate}~ No reproductions permitted under terms of the gift}~	Validate. Must be a littp://www.artc.edu}~		<u>.</u>	David Hodoney, "Mutholland Drive: the Road to the Studio", 1980). Other statues from the same site accessioned by the British Museum in 1845).	IsBasisFor}~ IsPartOfy~ References}~
no conditions	Validate. Null value only.	no conditions	Validate. Must be a urf	***	Validate. Null value only.	no conditions	DC. Validate. DC Relations Relations Type Value Table
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			DC. Relations
A record of the past owners of the work of art.	Group Does not contain data, used to group fields documenting work's copyright or restrictions.	The copyright of the work of art, including any known rights holders, encumbrances or restnations.	A URL that links to the AMICO member, indicating where and how a user can acquire further information or rights to use the work.		Group Does not contain data; groups fields documenting related works of art.	A narrative description of the relationship between this work and any others.	RWG The kind of relationship; drawn from the list of Dublin Core Relationship types.
	Group	ORG	9 8 0		Group	RWG	RWG
Υ	¥	Z	z	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	⊁	Z	Z
	•		*	100 mm 10			
		*					
Catalog OPO Proverance/Prior Owners-Text	Rights/Copynght	Copyright: Statement	Copyright-Link		RWG Related Works of Art	Related-Works- Description	Related-Works- Relationship- Type
<u>Q</u>	ORG	ORS	평	thed to	RWG	RWD	RWR
Catalog	Catalog	Catalog	Catalog	What is it related to?	Catalog	Catalog	Catalog
				3			

FIGURE 31J

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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01 43/118

		#####	#####		
		no repeat within group	no repeat within group		
LAMA.AC1954.856.32}~ AKAG.1863:1}~	<u></u>	Y}~ N}~	Detail}~ Full New}~ Aerial view}~ 360 degrees}~x-ray}~	HasFormat}~ HasVersion}~	AIC96-34543.tf}~ SPMA.89- 2335.jpg}~
Validate. AMICO Inst. Code, period,	Validate. Null value only.	Validate.	Value Table Value Table	DC. Validate. DC Relations Relations Type Value Table	Validate, AMICO Inst. Code, period, alpha-numeric, period, 3 char. MIME Type from Value list
		YorN		DC. Relations	
An identifier for or link to the related work of art.	Group Does not contain data; groups fields documenting related images. All AMICO works must have at least one related image.	Indicates (yes/no) whether this is the preferred image of the work of art. Each work must have one preferred image, that will be used in lists and brief displays.	The view of the work shown in this image: full, detail, recto, verso, 360 degrees, etc.; Note: Maps to XDE in Multimedia Metadata Record	The relation between this work and the image, using values from the Dublin Core Relationship Types. If original work is analog, and the image is digital, this value will be "Has-Format". If the original work is digital and the image is digital, this value is "Has-Version".	The identifier of the related image' Note: maps to XID in Multimedia Metadata Record
RWG	Group	RIG	RIG	RIG	RIG
z	>	z	Z	Z	z
	*	*	*	*	*
Related-Works- Identifier/Link	Related Images	Related-Image Preferred	Related-Image- Description	Related-Image-Relationship- Type	Related-Image Identifier/Link
RW	RIG	RIP	RID	RIR	RIL
Catalog	Catalog	Catalog	Catalog	Catalog	Catalog

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PERSISTENT ARCHIVES Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

44/118

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	-				
<u></u> ¿	Interview, in the artist's studio, January 17, 1993}~ "Fly-Through" movie of the installation seen from three feet above ground}~ Interpretation offered by the Museum Director in the gallery aucto}~	References}~ IsVersionOf}~ IsBasedOn}~	SFVA.96-543.mov}~ SDCA.1324:87.1.wav}~ NMAA.67- 3452.cgm}~	<u>~</u>	Johnson, James, "Wajor Works by Hurganan Artists, London, Ballet & Barey, 1963 p.137-138}~ The New Reporter, "ARTopenARTdosed", June 17, 1989, p.7}~ transcript of gallery talk at opening, Museum Archives}~
Validate. Null value }~ only.	no conditors	DC Validate. DC Relations Relations Type Value Table	Validate. AMICO Inst. Code, period, alpha-rumeric, period, 3 char. MIME Type from Value list	Validate. Null value only.	no conditions.
		DC. Relations			
Group Does not contain data; groups fields documenting related multimedia files.	A description of the related multimedia file. Note: Maps to XDE in Multimedia Metadata Record	The relationship between this work and the related multimedia file, expressed using Dublin Core Relationship Types. Note: inverse in XRT of Multimedia Metadata Record	The identifier of the related multimedia file. Note: maps to XID in Multimedia Metadata Record	Group Does not contain data; groups fields describing related documents.	The description, or title with full attation, of the related document. Note: Maps to XDE in Multimedia Metadata Record
dnag	RMG	RMG	RMG	Group	RDG.
λ	z	z	z	λ	z
	•				
RMG Related Multimedia	Related- Multimedia- Description	Related- Multimedia- Relationship- Type	Related- Multimedia- Identifier/Link	Related Documents	Related- Dournent- Description
RMG	RMD	RMR	RM L	වී	OD .
Catalog	Catalog	Catalog	Catalog	Catalog	Gralog
	-				

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Ĭ	Catalog RDR	Š	Related-		z	8	RDG A description of the	æ	Validate, DC	References}~		
			Document-				relationship between the	Relations	a)	•		
			Relationship-				work and the related		Value Table			
			Type				document, expressed using					
			- 1 -				Dublin Core Relationship					
				_			Types. Note: inverse of XRT					
							in Multimedia Metadata					
						_	Record					
_	Catalog	<u>8</u>	Related-		Z	RDG	The Identifier of the Related		Validate. AMICO	WGAdoc1876-45.sgm}~		
			Document-				Document. Note: maps to		Inst. Code, period,	MIA_newreporter46.grf}~		
			Identifier/Link				XID in Multimedia Metadata		alpha-numeric,	NMAA.Ex85-342.txt}~		
							Record		period, 3 char.			
									MIME Type from			
									Value list			
8	Mno documented it?	nted it	Charles and the contract of the con-							The state of the s		
<u> </u>	atalog	8	Catalog DCG Documentation/C		>	dno ₁ 0	Group Does not contain data;		Validate, Null value >~	~{	Tag changed	
			ataloguing-				groups fields recording the		only.		from DCH to	
			History				documentation history of the				make consistent	
							work.				with other group	
											tags	
												######
<u> </u>	Catalog DCB	8	Documented/C		Z	900	The name of the person who		no conditions.	Jameson}~ PDT}~ PhotoServices3}~ Ino repeat within	no repeat within	
			ataloged By				documented the work.				dnoub	######
J	atalog	g	Catalog DCD Documented/Ca		Z	8	The date the work was	date	Validate.	19870415}~	no repeat within	
			taloged-Date				documented.		YYYYMDD		dnoub	######

46/118

																				######					######	
,																added field that	tracks record	deletion			added field to	track when	record was	originally	submitted	
	19980324}~19980214}~				1.0}~1.3}~2.1}~				measurement data parsed; Error -	OCT is a required field!						λ}~					~{661~{861					
t they are	Validate.	WWWDD			Validate. Numeric																numeric Validate. Numeric 4 1998}~1999}~	digits exactly				
C 3 16	qate				numeric											¶ag Y/N					numeric					
And the second s	Entered by AMICO. The date	the catalog record for a work	of art was validated; created	by AMICO	Entered by AMICO. The	version of the AMICO data	dictionary in which the work	is doarmented.	Entered by AMICO. A record	of any data processing or	parsing done by AMICO;	indudes notes of errors,	warnings, and additions	through parsing routines.		Entered by AMICO. Indicates	that a record should be	removed from all public	distributions of the library.	Y=deleted record	Entered by AMICO. Indicates	which library year this record	was originally received in.			
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	z				z				Y						Ī	z					z					
	*				*																					
	Catalog AVD AMICO-Validated	Date				Dictionary-	Version		Catalog ADP AMICO Data	Processing						AMICO Deletion	Hag				ALY AMICO Library	Year				
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Version Control?	Catalog				Catalog				Catalog							Catalog					Catalog					
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FIGURE 31N

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PERSISTENT ARCHIVES

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

47/118

																				_
											_				-					
MMA_39504.TIF AIC_MUM98r.MOV				,		Front view				<u> </u>										
Validate.																				
The identifier of the	metadata file. Maps to RIL,	RML or RDL in catalog	record. Validation ensures	conformity to file naming	conventions	The title or name of the work	in the media file; maps to	RID, RMD, or RDD in the	catalog record.	Group Does not contain data;	groups fields documenting	the creation of the media	file.	The Personal Name of the	creator of media file	XCN The Corporate Name of the	Creator of the media file.	The role the named creator	played in the making of the	media file.
										Group				Š		ğ		Š		
z						Υ				>				>		>		>		
*																				
DC.Resource.Ide	ntifier					XTI DC Title				XCN DC.Oreator				DC.Oreator.Pers	onalName	DC.Oreator.Cor	porateName	DC.Oreator.Rol	e	
Ð						토				ğ				ģ		ă		Ř		
Media	Metadata					Media	Metadata			Media	Metadata			Media	Metadata	Media	Metadata	Media	Metadata	

FIGURE 310

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PERSISTENT ARCHIVES

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

48/118

	Media	ЭQX	DCDescription	*	>	*	A narrative description of the			
	œ						contents of the media file.			
	Media	₹	DCPublisher	*	z	ſ	The name of the institution		Art Institute of Chicago	
	Metadata					<u>.</u>	that made the media file			,
						(0	available; I.e. the name of			
						<u></u>	the contributing AMICO			
						<u></u>	member.			
	Media	ğ	XDN DC.Contributor		Å	Group L	Group Does not contain data;			
	Metadata					ان	groups fields documenting			
						<u>.</u>	other contributions to the			
						J	creation of the media file.			
L.	Media	ਕ੍ਰੇ	DC.Contributor.		Y	NQ Q	The Personal Name of a			
	Metadata	_	PersonalName				contributor to the creation of			
						יר	the media file			
	Media	ğ	DC.Contributor.		Υ	L NOX	The Corporate Name of a			
	Metadata	-	CorporateName			<u> </u>	contributor to the creation of			
						ļ	the media file.			
	Media	ğ	DC.Contributor.		λ	NOX	The role played by the			
	Metadata		Role				contributor in the creation of			
						<u>.</u>	the media file.			
	Media	Ą	DCDate		٠		The date that the media file	Validate.		
	Metadata	~					was created, in the format			
							YYYYWWDD			

FIGURE 31P

49/118

		######	#####	#####	#####	######
		group tag	group tag added - part of XFO corrected TIFF in example	group tag added - part of XFO	group tag added - part of XFO	group tag added - part of XFO
reproduction	image		ТІЯ	RGB	24-bit	1024 x 768
				,		
	Validate.		Validate.			
A "genre-like" tem, characterizing the content of the media file. For example, analytical report, critical review, interview, letter; lecture, portrait; reproduction;	A tem indicating the modality in which a person will experience the resource, audio; image; model; multimedia; text; video	Not Used: AMICO records format in specific sub-elements.	The manner in which the data in the media file is encoded. E.g. gif, tiff, jiff, ascii	The color palette of the media file. E.g. RGB, CMYK, Gayscale	The manner in which the color data is represented; e.g., 24-bit, 8-bit.	The dimensions of the media file: For an image, the spatial resolution of the image, e.g. 1024 x 768; 640 x 480; etc.
			O.X	хго	OTX	OF S
Z	z	>	z	z	z	z
*	*		*			*
XRT DC.ResourceTyp	XAM AMICO. Mode	DC.Format	AMICO.Format. Encoding	AMICO.Format. ColorPalette	AMICO.Format. ColorMetric	AMICO.Format. Dimensions
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Medadata Metadata	Media Metadata	Media Metadata	Media Metadata	Media Metadata	Media Metadata	Media Metadata

FIGURE 31Q

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PERSISTENT ARCHIVES

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

50/118

						
######	######					
group tag added - part of XFO	group tag added - part of XFO corrected delimiters in examples					
2.7 MB.	JPEG}~ MPEG}~ QT}~		IsFormatOf}~ IsVersionOf}~	AGO_253846v	Copyright Art Institute of Chicago	
	Validate.		DC. Relations	Validate.		
The storage size of the media file.	The compression algorithm used in storing the media file: none; jpeg; mpeg; etc.	Group Does not contain data; used to group fields documenting relationships.	The kind of relationship, expressed as a Dublin Core Relationship type. Note: this is the inverse of the relation in the record pointed to by the Relation. Identifier.	The identifier of the related work, image, metadata or sound; If within the AMICO Library, this must conform to naming conventions; warning produced if points outside AMICO dataset.	Text of rights statement for this media file.	Capture details and other matters of importance for understanding the quality/content of the digital file.
XFO	ХРО	dnove	XRE	XRE		
Z	Z	Y	Z	z	>	z
*	* .		*	*	*	
					*	
AMICO.Format. FileSize	AMICO:Format. Compression	DC.Relation	DC.Relation.Ty	DC.Relation.Ide ntifier	DC.Rights	AMICO.Media.No te
	SFX	XRE	XRY XRY	ヌ	8 S	₹
Media Metadata	Media Metadata	Media Metadata	Media Metadata	Media Metadata	Media Metadata	Metadata Metadata

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PERSISTENT ARCHIVES

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

51/118

	wes urgurany recoved in.	we originally received in.	add field that tracks record staus (deleted?) ##### add field that tracks which	add field that tracks which	inday year redoord was submitted in. #####	not used	consistently - existing data transferred to OOD ###################################
Y=deleted record Entered by AMICO. Indicates numeric Validate. 4 digits which library year this record was originally received in.	Entered by AVI(CO. Indicates numeric which library year this record was originally received in.	numeric	>		1998		
	Entered by AVICO. Indicates which library year this record was originally received in.	Entered by AMICO. Indicates which library year this record was originally received in.	N/A				
Y=deleta record Entered by AMICO. which library year t was originally recei	5 a g	53a 53a 55a	Indicates flag Y/N d be ublic				
	_	Z	Entered by AMICO. Indicates that a record should be removed from all public distributions of the library.	Y=deleted record	Entered by AMICO. Which library year t was originally recei		
2		£.,45(\$)	Metadata Delition Rag		Metadata Library Year		Object Label Copy
ata Library	Metadata Library Year Object Label Copy	Metadata Library Year Object Label Copy	헞		χχ	- 9	OCC
Year Year Object Label OLC Copy	XLY OLC	ALY OLC	Media Metadata		Media Metadata	Deleted Fields	Catalog Record

1GHRF 349

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

52/118

</th <th>====</th>	====
	Auth
	\$Id: i
	===:

- COMBINES amico-objects.dtd and amico-media.dtd into a SINGLE DTD.
- 2. Defines an ADDITIONAL LEVEL on top of the AMICO elements, corresponding to the abstract classification of AMICO elements in the data dictionary:

am classification?, What is it? What is it called? am titles, What does it look like? am appearance?, am creators, Who made it? am_creation_date, When was it made? am_creation_place?, Where was it made? am context?, What is it about? am_criticism?, What does it mean? am_exhibitions?, Who showed it? Who owned it? am_owners, am related works, What is it related to? am documenters?, Who documented it? am version control?, Version Control? am_media_metadata Media Metadata

NAMING CONVENTIONS FOR ELEMENTS:

· · · · · · · · · · · · · · · · · · ·	
The AMICO data dictionary has a	32A
o TAG column defining a 3-letter abbreviation, and a o AMICO-FIELD column with the full name of the field.	
These two components make up the XML tag name as follows: o XYZ_AMICO_FIELD_NAME	32C
For elements which are *groups*, i.e., contain subelements, just one underscore is used.	32D
example: o CLG_classification (group)	32E
o OT:Yobject_type (atomic element)	32F
NOTE: OLC is not modeled, as it is listed under `deleted fields'	32G
MULTIPLICITY OF ELEMENTS IN DTDs: * = zero-or-more	32H
+ = one-or-more ? = zero-or-one	321
otherwise: exactly one	32J
NOTE: OLC is not modeled, as it is listed under `deleted fields'	32K

FIGURE 32A

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
<!ELEMENT am_objects (am_object*) >
<!ELEMENT am_object (
           AID__amico_identifier,
           am_classification?,
           am_titles,
           am_appearance?,
           am_creators,
           am_creation_dates,
           am_creation_place?,
           am_context?,
           am criticism?,
           am_exhibitions?,
           am_owners,
           am_related_works?,
           am_documenters?,
           am_version_control?,
           am_media_metadata
           )>
<!ELEMENT am_classification (</pre>
           OTY__object_type*,
           OPP object parts pieces*,
           CLG_classification*
           )>
<!ELEMENT CLG_classification (</pre>
           CLS classification_scheme?,
           CLT__classification_term?
           )>
<!ELEMENT am_titles (
           OTG object title name+,
           OST state*,
           OEN edition*
           )>
<!ELEMENT OTG_object_title_name (
           OTN__object_title_name?,
           OTT__title_type*
           )>
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
<!ELEMENT am appearance (</pre>
            OPD_physical_description?,
            OPA__physical_orientation_arrangement?,
            MET measurements text*,
            MEG measurements*,
            OMG materials and techniques*,
            OIN inscriptions_and_or_marks*,
            OCH condition examination history*,
            OTH treatment conservation history*
            )>
<!ELEMENT MEG measurements (
            MCM__measurement_component_measured?,
            MED measurement dimension?,
            MDV measurement dimension value?,
            MDU__measurement_dimension_units?,
            MEQ measurement qualifier?
            )>
<!ELEMENT OMG_materials_and_techniques (
            OMD materials and techniques description?,
            OMT materials and techniques process technique term*,
            OMM materials and techniques materials_term*,
            OMS materials and techniques support*
            )>
<!ELEMENT am_creators (
            CRG creator*
            )>
<!ELEMENT CRG creator (
            CRQ__creator_qualifier?,
            CRT creator name text,
            CRN__creator_name?,
            CRC__creator_culture_nationality?,
            CDT creator dates locations text?,
            CBD creator birth date?,
            CBP__creator_birth_place?,
            CBQ__creator_birth_qualifier?,
            CDD creator death date?,
            CDP__creator_death_place?,
            CDQ__creator_death_qualifier?,
            CAD _creator_active_date?,
            CAP creator active place*,
            CGN creator gender?,
            CRB creator biography?,
            CRR creator role*,
            CNO__creator_notes?
            )>
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

55/118

```
<!ELEMENT am creation dates (
             OCG_creation dates*
<!ELEMENT OCG creation dates (
             OCT creation date_text,
             OCS__creation_date_start?,
             OCE__creation_date_end?,
             OCQ__creation_date_qualifier?
<!ELEMENT am_creation_place (
             OCP__creation_place*
<!ELEMENT am_context (
             STG style period*,
             SUG_subject_matter*,
             CXG_context*
            )>
<!ELEMENT STG_style_period (
             STD style_period_description?,
             STT__style_period_terms*
            )>
<!ELEMENT SUG subject matter (
             SUP__subject_matter_preiconographic_description?,
             SUI__subject_matter_iconography*,
             SUT subject matter_index_terms*
            )>
<!ELEMENT CXG_context (</pre>
             CXD__context_description?,
             CXP__context_related_person*,
             CXS__context_related_site_place*,
             CXT context time period dates?
             )>
<!ELEMENT am criticism (
             OCR critical_responses*
             )>
<!ELEMENT am_exhibitions (</pre>
             OEH exhibition_or_loan_history*
             )>
<!ELEMENT am_owners (</pre>
             OOG_owner*,
             OPO__provenance_prior_owners_text*,
             ORG rights copyright*
             )>
```

FIGURE 32D

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

56/118

```
<!ELEMENT OOG_owner (
            OON owner name,
            OOP__owner_place*,
            OOA__owner_accession_number*,
            OOC_owner_credit_line+
            )>
<!ELEMENT ORG rights copyright (</pre>
            ORS copyright_statement,
            ORL__copyright_link?
            )>
<!ELEMENT am related works (
            RWG related works of art*,
            RIG related_images*,
            RMG_related_multimedia*,
            RDG related documents*
<!ELEMENT RWG_related_works_of_art (
            RWD_related_works_description?,
            RWR related_works_relationship_type?,
            RWL__related_works_identifier_link?
            )>
<!ELEMENT RIG_related_images (
            RIP related image preferred?,
            RID related image description?,
            RIR__related_image_relationship_type?,
            RIL__related_image_identifier_link?
            )>
<!ELEMENT RMG related_multimedia (</pre>
            RMD__related_multimedia_description?,
            RMR related multimedia_relationship_type?,
            RML related_multimedia_identifier_link?
<!ELEMENT RDG_related_documents (
            RDD related document_description?,
             RDR related document relationship_type?,
            RDL__related_document_identifier_link?
            )>
<!ELEMENT am documenters (
            DCG documentation cataloguing history*
            )>
<!ELEMENT DCG_documentation_cataloguing_history (</pre>
            DCB documented cataloged by?,
            DCD__documented_cataloged_date?
            )>
```

FIGURE 32E

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
<!ELEMENT am_version_control (</pre>
           AVD_amico validated date?,
           AVV validation_dictionary version?,
           ADP__amico_data_processing*,
           DEL amico deletion flag?,
           ALY amico_library_year?
     <!--
<!ELEMENT am_media_metadata (
           XID dc resource identifier?,
           XTI dc title*,
           XCN dc creator*,
           XDE__dc_description*,
           XPU_dc_publisher?,
           XDN dc contributor*,
           XDA dc date*,
           XRT__dc_resourcetype?,
           XAM__amico_mode?,
           XFO_dc_format*,
           XRE dc relation*,
           XRS__dc_rights+,
           XMN amico media note?,
           XVD amico metadata validation_date?,
           XVV__amico_data_dictionary_version?,
           XPR metadata data processing note*,
           XDL__metadata_delition_flag?,
           XLY metadata_library_year?
<!ELEMENT XCN dc creator (
           XCP dc creator personalname*,
           XCC dc creator_corporatename*,
           XCR dc creator role*
           )>
<!ELEMENT XDN_dc_contributor (
           XDP dc contributor personalname*,
           XDC dc contributor corporatename*,
           XDR dc contributor role*
<!ELEMENT XFO dc format (
           XFE amico_format_encoding?,
           XFP amico format colorpalette?,
           XCM__amico_format_colormetric?,
           XFD__amico_format_dimensions?,
            XFF amico format filesize?,
            XFC amico format compression?
            )>
```

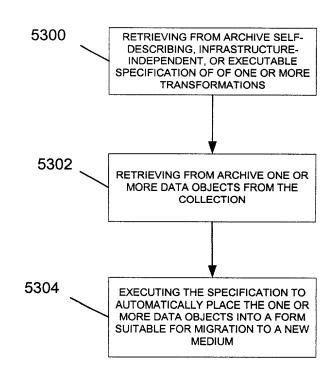


FIGURE 53

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
<!ELEMENT XRE_dc_relation (
            XRY__dc_relation_type?,
            XRI__dc_relation_identifier?
<!--
      <!ELEMENT ADP__amico_data_processing
                                  (#PCDATA)>
<!ELEMENT AID__amico_identifier</pre>
                                  (#PCDATA)>
<!ELEMENT ALY__amico_library_year
                                  (#PCDATA)>
<!ELEMENT AVD__amico_validated_date
                                  (#PCDATA)>
<!ELEMENT AVV__validation_dictionary_version</pre>
                                  (#PCDATA)>
<!ELEMENT CAD__creator_active_date
                                  (#PCDATA)>
<!ELEMENT CAP__creator_active_place
                                  (#PCDATA)>
<!ELEMENT CBD__creator_birth_date
                                  (#PCDATA)>
<!ELEMENT CBP__creator_birth_place
                                  (#PCDATA)>
<!ELEMENT CBQ__creator_birth_qualifier</p>
                                  (#PCDATA)>
<!ELEMENT CDD__creator_death_date
                                  (#PCDATA)>
<!ELEMENT CDP__creator_death_place
                                  (#PCDATA)>
<!ELEMENT CDQ__creator_death_qualifier</pre>
                                  (#PCDATA)>
<!ELEMENT CDT__creator_dates_locations_text</pre>
                                  (#PCDATA)>
<!ELEMENT CGN__creator_gender
                                  (#PCDATA)>
<!ELEMENT CLS classification scheme</p>
                                  (#PCDATA)>
<!ELEMENT CLT__classification_term</pre>
                                  (#PCDATA)>
<!ELEMENT CNO__creator_notes
                                  (#PCDATA)>
<!ELEMENT CRB__creator_biography</pre>
                                  (#PCDATA)>
<!ELEMENT CRC__creator_culture_nationality</pre>
                                  (#PCDATA)>
<!ELEMENT CRN__creator_name
                                  (#PCDATA)>
<!ELEMENT CRQ creator qualifier
                                  (#PCDATA)>
<!ELEMENT CRR creator role
                                    FIGURE 32G
```

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01 60/118

ELEMENT CRTcreator_name_text</td
(#PCDATA)> ELEMENT CXDcontext_description</td
(#PCDATA)>
<pre><!--ELEMENT CXPcontext_related_person</td--></pre>
ELEMENT CXScontext_related_site_place</td
(#PCDATA)> ELEMENT CXTcontext_time_period_dates</td
(#PCDATA)>
ELEMENT DCBdocumented_cataloged_by<br (#PCDATA)>
ELEMENT DCDdocumented_cataloged_date</td
(#PCDATA)>
ELEMENT DELamico_deletion_flag<br (#PCDATA)>
ELEMENT</td
MCMmeasurement_component_measured (#PCDATA)>
ELEMENT MDU measurement dimension units</td
(#PCDATA)>
ELEMENT MDVmeasurement_dimension_value</td
(#PCDATA)> ELEMENT MED measurement dimension</td
(#PCDATA)>
ELEMENT MEQmeasurement_qualifier</td
(#PCDATA)>
ELEMENT METmeasurements_text</td
(#PCDATA)> ELEMENT OCEcreation_date_end</td
(#PCDATA)>
ELEMENT OCHcondition_examination_history</td
(#PCDATA)>
<pre><!--ELEMENT OCPcreation_place</td--></pre>
ELEMENT OCQcreation_date_qualifier</td
(#PCDATA)>
<pre>'<!--ELEMENT OCRcritical_responses</pre--></pre>
(#PCDATA)> ELEMENT OCScreation_date_start</td
(#PCDATA)>
ELEMENT OCTcreation_date_text</td
(#PCDATA)> ELEMENT OEHexhibition_or_loan_history</td
(#PCDATA)>
ELEMENT OENedition</td
(#PCDATA)> ELEMENT OINinscriptions_and_or_marks</td
(#PCDATA)>
, ,

FIGURE 32H

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

61/118

```
<!ELEMENT OMD__materials_and_techniques_description
                                   (#PCDATA)>
<!ELEMENT OMM__materials_and_techniques_materials_term
                                   (#PCDATA)>
<!ELEMENT OMS__materials_and_techniques_support
                                   (#PCDATA)>
<!ELEMENT OMT__materials_and_techniques process technique term
                                   (#PCDATA)>
<!ELEMENT OOA owner accession number</p>
                                   (#PCDATA)>
<!ELEMENT OOC__owner_credit_line</pre>
                                   (#PCDATA)>
<!ELEMENT OON__owner_name
                                   (#PCDATA)>
<!ELEMENT OOP owner place
                                   (#PCDATA)>
<!ELEMENT OPA__physical_orientation_arrangement</pre>
                                   (#PCDATA)>
<!ELEMENT OPD__physical_description
                                   (#PCDATA)>
<!ELEMENT OPO provenance prior owners text</p>
                                   (#PCDATA)>
<!ELEMENT OPP__object_parts_pieces</pre>
                                   (#PCDATA)>
<!ELEMENT ORL__copyright_link
                                   (#PCDATA)>
<!ELEMENT ORS copyright statement</p>
                                   (#PCDATA)>
<!ELEMENT OST state
                                   (#PCDATA)>
<!ELEMENT OTH__treatment_conservation_history
                                   (#PCDATA)>
<!ELEMENT OTN__object_title_name
                                   (#PCDATA)>
<!ELEMENT OTT__title_type
                                   (#PCDATA)>
<!ELEMENT OTY__object_type
                                   (#PCDATA)>
<!ELEMENT RDD related document description</p>
                                   (#PCDATA)>
<!ELEMENT RDL related document identifier link
                                   (#PCDATA)>
<!ELEMENT RDR__related_document_relationship_type</pre>
                                   (#PCDATA)>
<!ELEMENT RID related image description
                                   (#PCDATA)>
<!ELEMENT RIL__related_image_identifier_link</pre>
                                   (#PCDATA)>
<!ELEMENT RIP__related_image_preferred
                                   (#PCDATA)>
```

FIGURE 32I

62/118

```
<!ELEMENT RIR__related_image_relationship_type
                                    (#PCDATA)>
<!ELEMENT RMD__related_multimedia description
                                    (#PCDATA)>
<!ELEMENT RML__related_multimedia_identifier_link
                                    (#PCDATA)>
<!ELEMENT RMR__related_multimedia_relationship type</pre>
                                    (#PCDATA)>
<!ELEMENT RWD__related_works_description</pre>
                                    (#PCDATA)>
<!ELEMENT RWL related works identifier link</p>
                                    (#PCDATA)>
<!ELEMENT RWR__related_works_relationship_type
                                    (#PCDATA)>
<!ELEMENT STD__style_period_description
                                    (#PCDATA)>
<!ELEMENT STT__style_period_terms
                                    (#PCDATA)>
<!ELEMENT SUI__subject_matter_iconography</pre>
                                    (#PCDATA)>
<!ELEMENT SUP__subject_matter_preiconographic_description</pre>
                                    (#PCDATA)>
<!ELEMENT SUT subject matter index terms</pre>
                                    (#PCDATA)>
<!--
      ====== MEDIA METADATA ========================
<!ELEMENT XAM__amico_mode
                                    (#PCDATA)>
<!ELEMENT XCC__dc_creator_corporatename</pre>
                                    (#PCDATA)>
<!ELEMENT XCM__amico_format_colormetric
                                    (#PCDATA)>
<!ELEMENT XCP__dc_creator personalname</pre>
                                    (#PCDATA)>
<!ELEMENT XCR dc_creator_role
                                    (#PCDATA)>
<!ELEMENT XDA dc date
                                    (#PCDATA)>
<!ELEMENT XDC__dc_contributor_corporatename</pre>
                                    (#PCDATA)>
<!ELEMENT XDE dc description</pre>
                                    (#PCDATA)>
<!ELEMENT XDL__metadata_delition_flag
                                   (#PCDATA)>
<!ELEMENT XDP__dc_contributor_personalname</pre>
                                    (#PCDATA)>
<!ELEMENT XDR __dc_contributor role
                                   (#PCDATA)>
<!ELEMENT XFC__amico_format_compression</pre>
                                    (#PCDATA)>
<!ELEMENT XFD__amico_format_dimensions</pre>
                                   (#PCDATA)>
```

FIGURE 32J

ELEMENT XFEamico_format_encoding</th
(#PCDATA)>
<pre><!--ELEMENT XFFamico_format_filesize</pre--></pre>
(#PCDATA)> ELEMENT XFPamico_format_colorpalette</td
(#PCDATA)>
ELEMENT XIDdc_resource_identifier</td
(#PCDATA)>
ELEMENT XLYmetadata_library_year</td
(#PCDATA)>
ELEMENT XMNamico_media_note</td
(#PCDATA)> ELEMENT XPRmetadata_data_processing_note</td
(#PCDATA)>
ELEMENT XPUdc_publisher</td
(#PCDATA)>
ELEMENT XRIdc_relation_identifier</td
(#PCDATA)>
ELEMENT XRSdc_rights</td
(#PCDATA)>
<pre><!--ELEMENT XRTdc_resourcetype</td--></pre>
ELEMENT XRY dc_relation_type</td
(#PCDATA)>
ELEMENT XTIdc_title</td
(#PCDATA)>
ELEMENT XVDamico_metadata_validation_date</td
(#PCDATA)>
<pre><!--ELEMENT XVVamico_data_dictionary_version</pre--></pre>
(#PCDATA)>

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

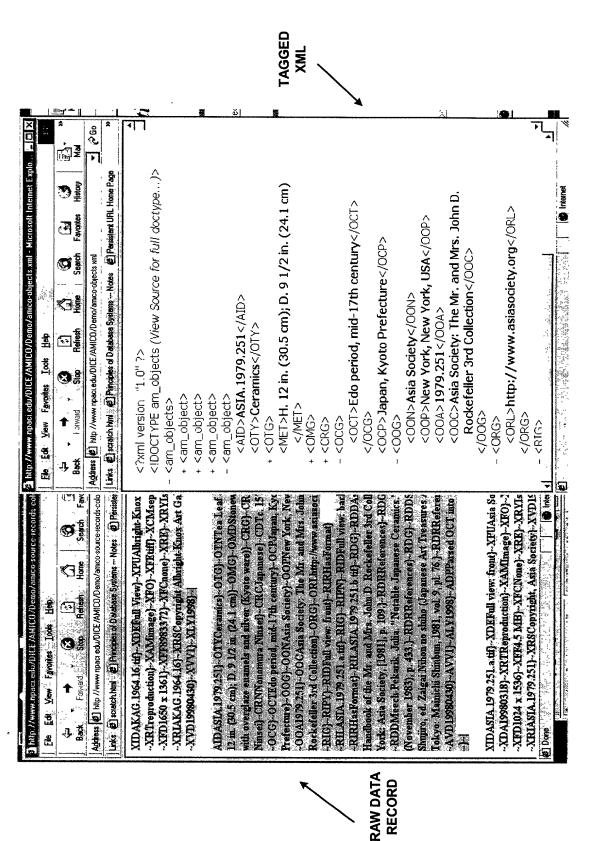


FIGURE 33

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

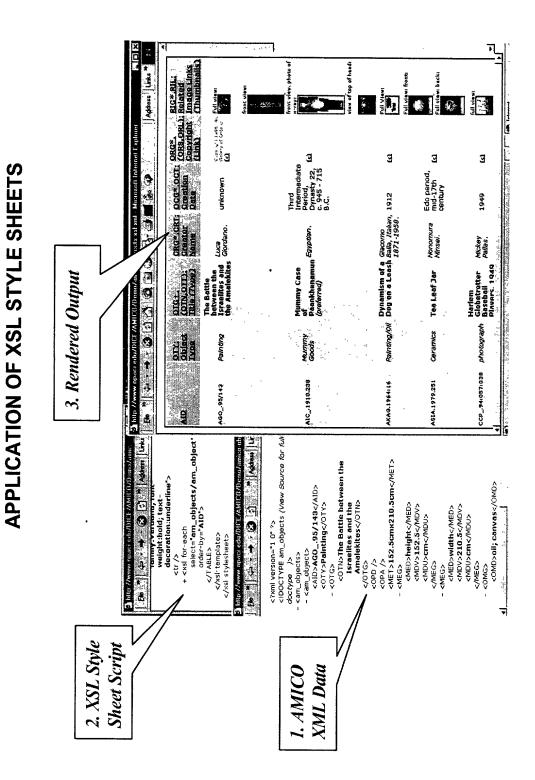


FIGURE 34

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

66/118

```
#!/usr/local/bin/perl -w
use strict;
# amico2xml AMICO records to XML conversion
# Author:
            Bertram Ludaescher < ludaesch@sdsc.edu>
#
# call:
            amico2xml file
# returns:
            XML-ified version
#
# 2do:
            extend escXML, handling of binary data
# $Id: amico2xml,v 1.1 1999/04/06 08:43:40 ludaesch Exp $
my $output;
                   # handle for current output stream
my @record = ():
                   # current record (= array of fields)
my $tab = 2:
                   # current output tab position
sub ind {
                   # indent according to current tab position
return " " x $tab
my %long tag =
                         # hash of defined tags (long names currently
              # not used)
 "ADP" => "ADP __amico data processing",
 "AID" => "AID__amico_identifier",
 "ALY" => "ALY__amico_library_year",
"AVD" => "AVD__amico_validated_date",
 "AVV" => "AVV__validation dictionary version",
 "CAD" => "CAD__creator_active_date",
 "CAP" => "CAP__creator_active_place",
 "CBD" => "CBD__creator_birth_date",
 "CBP" => "CBP__creator_birth_place",
 "CBQ" => "CBQ creator birth qualifier",
 "CDD" => "CDD__creator_death_date",
                                                                                35A
 "CDP" => "CDP__creator_death_place",
 "CDQ" => "CDQ__creator_death_qualifier",
                                                                                35B
 "CDT" => "CDT__creator_dates_locations_text",
"CGN" => "CGN__creator_gender",
                                                                                35C
 "CLG" => "CLG_classification",
 "CLS" => "CLS__classification_scheme",
                                                                                35D
 "CLT" => "CLT__classification_term ",
 "CNO" => "CNO__creator_notes",
                                                                                35E
 "CRB" => "CRB creator biography",
 "CRC" => "CRC__creator_culture_nationality",
                                                                                35F
                                                                                35G
```

FIGURE 35A

Inventors: Reagan W. Moore, et al. Howrey Docket No. 02737.0004.NPUS01

```
"CRG" => "CRG_creator",
 "CRN" => "CRN__creator_name",
 "CRQ" => "CRQ__creator_qualifier",
 "CRR" => "CRR__creator_role",
 "CRT" => "CRT__creator_name_text",
 "CXD" => "CXD __context_description",
 "CXG" => "CXG_context",
 "CXP" => "CXP__context_related_person",
 "CXS" => "CXS__context_related_site_place",
 "CXT" => "CXT context time period dates"
 "DCB" => "DCB __documented_cataloged_by",
 "DCD" => "DCD__documented_cataloged_date "
 "DCG" => "DCG_documentation_cataloguing_history",
 "DEL" => "DEL_ amico deletion flag",
 "MCM" => "MCM__measurement component measured",
 "MDU" => "MDU__measurement_dimension_units",
 "MDV" => "MDV __measurement_dimension_value",
 "MED" => "MED __measurement_dimension",
 "MEG" => "MEG_measurements",
 "MEQ" => "MEQ__measurement_qualifier ",
 "MET" => "MET measurements text",
 "OCE" => "OCE __creation_date_end",
 "OCG" => "OCG creation dates".
 "OCH" => "OCH__condition_examination_history",
 "OCP" => "OCP__creation_place",
 "OCQ" => "OCQ__creation_date_qualifier",
 "OCR" => "OCR__critical_responses",
"OCS" => "OCS__creation_date_start",
"OCT" => "OCT__creation_date_text",
"OEH" => "OEH__exhibition_or_loan_history",
"OEN" => "OEN _edition",
"OIN" => "OIN__inscriptions_and_or_marks",
"OMD" => "OMD__materials_and_techniques_description",
"OMG" => "OMG_materials_and_techniques",
"OMM" => "OMM__materials_and_techniques_materials_term",
"OMS" => "OMS__materials_and_techniques_support".
"OMT" => "OMT__materials_and_techniques_process_technique_term",
"OOA" => "OOA _owner accession number",
"OOC" => "OOC__owner_credit_line",
"OOG" => "OOG owner",
"OON" => "OON__owner_name",
"OOP" => "OOP__owner_place",
"OPA" => "OPA physical orientation arrangement",
"OPD" => "OPD__physical_description",
"OPO" => "OPO_ provenance_prior_owners_text",
"OPP" => "OPP_object_parts_pieces",
"ORG" => "ORG_rights_copyright",
"ORL" => "ORL__copyright_link",
"ORS" => "ORS __copyright_statement",
"OST" => "OST state",
"OTG" => "OTG object_title name",
"OTH" => "OTH__treatment_conservation_history",
```